

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L14	3	neutral same atom\$4 same beam same (laser and RF and DC)	US-PGPU B; USPAT	OR	ON	2006/03/07 15:22
L12	14	(O2 "O.sub.2" "0.sub.2" "02" oxygen) same atom\$4 same beam same (laser and RF and DC)	US-PGPU B; USPAT	OR	ON	2006/03/07 15:21
L11	0	(O2 "O.sub.2" "0.sub.2" "02" oxygen) with atom\$4 with beam with (laser and RF and DC)	US-PGPU B; USPAT	OR	ON	2006/03/07 15:18
L13	1	(O2 "O.sub.2" "0.sub.2" "02" oxygen) with atom\$4 with beam same (laser and RF and DC)	US-PGPU B; USPAT	OR	ON	2006/03/07 15:18
L10	19	oxygen near2 atom\$4 near2 beam same laser	US-PGPU B; USPAT	OR	ON	2006/03/07 15:16
L7	1	1 and laser	US-PGPU B; USPAT	OR	ON	2006/03/07 15:11
L8	0	oxygen adj atom adj beam with laser	US-PGPU B; USPAT	OR	ON	2006/03/07 15:11
L9	0	oxygen adj atom adj beam same laser	US-PGPU B; USPAT	OR	ON	2006/03/07 15:11
L6	1	1 and (high frequency)	US-PGPU B; USPAT	OR	ON	2006/03/07 15:09
L4	0	1 and radio	US-PGPU B; USPAT	OR	ON	2006/03/07 15:02
L5	968166	1 and high frequency	US-PGPU B; USPAT	OR	ON	2006/03/07 15:02

EAST Search History

L2	1	1 and ev	US-PGPU B; USPAT	OR	ON	2006/03/07 15:01
L3	0	1 and RF	US-PGPU B; USPAT	OR	ON	2006/03/07 15:01
L1	1	(US-6921722-\$).did.	USPAT	OR	ON	2006/03/07 14:25
S91	75	S84 not S88	US-PGPU B; USPAT	OR	ON	2005/11/10 11:07
S84	78	(atom\$2 oxygen radical neutral) near2 beam same laser near3 source	US-PGPU B; USPAT	OR	ON	2005/11/10 11:05
S89	1	(atom\$2 oxygen radical neutral) near2 beam same laser near induced near3 source	US-PGPU B; USPAT	OR	ON	2005/11/10 11:05
S90	0	(atom\$2 oxygen radical neutral) near2 beam same laser near sustained near3 source	US-PGPU B; USPAT	OR	ON	2005/11/10 11:05
S87	2	(atom\$2 oxygen radical neutral) near2 beam same laser with induced with discharge with source	US-PGPU B; USPAT	OR	ON	2005/11/10 11:03
S88	7	(atom\$2 oxygen radical neutral) near2 beam same laser with discharge with source	US-PGPU B; USPAT	OR	ON	2005/11/10 11:03
S86	3	(atom\$2 oxygen radical neutral) near2 beam same laser near4 discharge near4 source	US-PGPU B; USPAT	OR	ON	2005/11/10 11:02
S85	1	(atom\$2 oxygen radical neutral) near2 beam same laser near2 discharge near3 source	US-PGPU B; USPAT	OR	ON	2005/11/10 11:00

EAST Search History

S76	3	(atom\$2 oxygen radical neutral) near2 beam same etch\$3 near (Cu copper)	US-PGPU B; USPAT	OR	ON	2005/11/10 10:58
S82	6	S81 and (hfach hhhfac hfach acach tfach)	US-PGPU B; USPAT	OR	ON	2005/11/10 10:28
S83	35	S81 not S82	US-PGPU B; USPAT	OR	ON	2005/11/10 10:28
S81	41	(atom\$2 oxygen radical neutral) near2 beam and etch\$3 near (Cu copper)	US-PGPU B; USPAT	OR	ON	2005/11/10 10:26
S79	29	S71 and ("1" "10") adj ev	US-PGPU B; USPAT	OR	ON	2005/11/10 10:23
S78	0	S71 and (1ev 10ev)	US-PGPU B; USPAT	OR	ON	2005/11/10 10:22
S80	0	S71 and ("1ev" "10ev")	US-PGPU B; USPAT	OR	ON	2005/11/10 10:22
S71	1471	etch\$3 same (Cu copper) and (atom\$2 beam) near2 (O2 "O.sub.2" oxygen "O2" "O.sub.2")	US-PGPU B; USPAT	OR	ON	2005/11/10 10:21
S77	12	("20010045525" "5395474" "5563416" "5677011" "5708267" "5827786" "5868952" "5883470" "6641705"). PN. OR ("2001/0055649" "2005/0224456" "6921722").URPN.	US-PGPU B; USPAT; USOCR	OR	ON	2005/11/10 10:17

EAST Search History

S75	2	("20010055649").PN.	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	OFF	2005/11/10 10:09
S72	13	S71 and S70	US-PGPU B; USPAT	OR	ON	2005/11/10 07:52

EAST Search History

S73	35	(US-20010055649-\$ or US-20040110375-\$ or US-20020076495-\$ or US-20040082176-\$ or US-20030168001-\$ or US-20030064323-\$ or US-20040113097-\$).did. or (US-5993679-\$ or US-5782986-\$ or US-6375790-\$ or US-6806198-\$ or US-6921722-\$ or US-6902774-\$ or US-5350480-\$ or US-5431774-\$ or US-6787783-\$ or US-6569595-\$ or US-5883005-\$ or US-5705443-\$ or US-6874443-\$ or US-6083413-\$ or US-6183566-\$ or US-5221366-\$ or US-5271800-\$ or US-5110407-\$ or US-6943350-\$ or US-6878635-\$ or US-6843893-\$ or US-5814238-\$ or US-6645872-\$ or US-5736002-\$ or US-5387315-\$ or US-4919750-\$).did. or (US-4659426-\$ or US-5350484-\$).did.	US-PGPU B; USPAT	OR	ON	2005/11/10 07:52
S74	3	S70 and S73	US-PGPU B; USPAT	OR	ON	2005/11/10 07:52

EAST Search History

S70	295	(US-6184148-\$ or US-6429105-\$ or US-6440843-\$ or US-5434104-\$ or US-5545289-\$ or US-5824234-\$ or US-5846443-\$ or US-5994235-\$ or US-6242107-\$ or US-5380397-\$ or US-5556714-\$ or US-5770100-\$ or US-5882537-\$ or US-5888899-\$ or US-5229360-\$ or US-5298117-\$ or US-5575885-\$ or US-5620558-\$ or US-5998297-\$ or US-6087266-\$ or US-6153530-\$ or US-4433470-\$ or US-5225034-\$ or US-5354490-\$ or US-5527425-\$ or US-5665641-\$).did. or (US-5772906-\$ or US-5980768-\$ or US-6004884-\$ or US-6030932-\$ or US-6090717-\$ or US-6117786-\$ or US-6191086-\$ or US-3919100-\$ or US-4462882-\$ or US-4495090-\$ or US-5246884-\$ or US-5365112-\$ or US-5393703-\$ or US-5623166-\$ or US-5854134-\$ or US-5930650-\$ or US-5976986-\$ or US-6071810-\$ or US-6245155-\$ or US-6245665-\$ or	USPAT	OR	ON	2005/11/10 07:51
		US-6283835-\$ or US-6316810-\$ or US-6353004-\$ or				

EAST Search History

S69	12	(US-20040110375-\$ or US-20030168001-\$ or US-20010055649-\$).did. or (US-6921722-\$ or US-6902774-\$ or US-6874443-\$ or US-6083413-\$ or US-5883005-\$ or US-5782986-\$ or US-5350480-\$ or US-5271800-\$ or US-5110407-\$).did.	US-PGPU B; USPAT	OR	ON	2005/11/04 12:42
S68	35	S67 and (etch\$3 copper Cu neutral atom\$2 beam)	US-PGPU B; USPAT	OR	ON	2005/11/04 12:01
S67	35	S65 S66	US-PGPU B; USPAT	OR	ON	2005/11/04 12:00
S66	11	(US-6645872-\$ or US-5993679-\$ or US-5883005-\$ or US-5350480-\$ or US-5782986-\$ or US-5736002-\$ or US-5431774-\$ or US-5387315-\$ or US-5350484-\$ or US-4919750-\$ or US-4659426-\$).did.	USPAT	OR	ON	2005/11/04 11:58
S65	30	S34 S63 S64	US-PGPU B; USPAT	OR	ON	2005/11/04 11:49
S63	11	(US-6183566-\$ or US-5221366-\$ or US-5705443-\$ or US-6843893-\$ or US-6874443-\$ or US-5814238-\$ or US-6878635-\$ or US-6943350-\$ or US-6083413-\$ or US-5271800-\$ or US-5110407-\$).did.	USPAT	OR	ON	2005/11/04 11:48

EAST Search History

S64	4	(US-6645872-\$ or US-5993679-\$ or US-5883005-\$ or US-5350480-\$).did.	USPAT	OR	ON	2005/11/04 11:48
S61	4	S59 and (etch\$3 with (Cu copper))	US-PGPU B; USPAT	OR	ON	2005/11/04 11:42
S62	1	S59 and (etch\$3 same (Cu copper)) not S61	US-PGPU B; USPAT	OR	ON	2005/11/04 11:42
S60	14	S48 and (etch\$3 with (Cu copper))	US-PGPU B; USPAT	OR	ON	2005/11/04 11:39
S57	59	S55 and (etch\$3 with (Cu copper))	US-PGPU B; USPAT	OR	ON	2005/11/04 11:38
S58	64	S55 and (oxygen O2 "O. sub.2" "O2" "O.sub.2" atom\$2 molecular neutral radical) near2 beam	US-PGPU B; USPAT; USOCR	OR	ON	2005/11/04 11:37
S59	43	S55 and (atom\$2 neutral radical) near2 beam	US-PGPU B; USPAT; USOCR	OR	ON	2005/11/04 11:37
S36	87	S35 and (oxygen O2 "O. sub.2" atom\$2 molecular neutral ion) near2 beam	US-PGPU B; USPAT; USOCR	OR	ON	2005/11/04 11:21
S53	30	S52 and (etch\$3 with (Cu copper))	US-PGPU B; USPAT	OR	ON	2005/11/04 11:20
S55	323	(S35 S49)	US-PGPU B; USPAT	OR	ON	2005/11/04 11:20
S56	272	S55 and etch\$3	US-PGPU B; USPAT	OR	ON	2005/11/04 11:20
S54	23	S52 and (etch\$3 near2 (Cu copper))	US-PGPU B; USPAT	OR	ON	2005/11/04 11:19

EAST Search History

S52	54	S51 and (Cu copper)	US-PGPU B; USPAT	OR	ON	2005/11/04 11:13
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EAST Search History

S49	171	("20020117635" "20030164460" "20040041095" "20040043621" "2801194" "2801195" "2801196" "3301688" "3975252" "3985586" "3985587" "4059218" "4060191" "4216035" "4243476" "4431477" "4468284" "4498953" "4529475" "4643799" "4659426" "4662977" "4678536" "4734152" "4741800" "4780608" "4794258" "4828817" "4874459" "4874460" "4919750" "4923828" "4961820" "4985990" "5036252" "5068007" "5092967" "5094701" "5098516" "5116432" "5122225" "5129991" "5147500" "5178721" "5185058" "5198388" "5201989" "5204314" "5213621" "5213622" "5221366" "5221423" "5238530" "5262001" "5269881" "5273935" "5288684" "5304405" "5312516" "5318668" "5329152" "5332444" "5336355" "5338398" "5342448" "5350480" "5350484" "5356514" "5368685" "5368687" "5380370" "5382320" "5387315" "5401358" "5411631" "5431774" "5470799" "5534107" "5653812" "5694184" "5725677" "5736002" "5776253" "5814156" "5821169" "5846884" "5883005" "5888907" "5939336" "6015759" "6044850" "6090721" "6173262" "6211622"	US-PGPU B; USPAT; USOCR	OR	ON	2005/11/04 11:12
3/7/06 4:29:32 PM		"5939336" "6015759"				Page 10
C:\Documents and Settings\jansen\My Documents\EAST\Workspaces\10 series\10517764 and !PCT US03 16240.wsp		"6044850" "6090721"				
		"6173262" "6211622"				

EAST Search History

S48	22	S42 and (Cu copper)	US-PGPU B; USPAT	OR	ON	2005/11/04 11:12
S50	140	S49 not S35	US-PGPU B; USPAT	OR	ON	2005/11/04 11:12
S51	123	S50 and etch\$3	US-PGPU B; USPAT	OR	ON	2005/11/04 11:12
S47	4	S46 and (Cu copper)	US-PGPU B; USPAT	OR	ON	2005/11/04 10:58
S46	28	S37 not S44	US-PGPU B; USPAT	OR	ON	2005/11/04 10:57
S45	6	S44 not S40	US-PGPU B; USPAT	OR	ON	2005/11/04 10:40
S41	149	S35 and etch\$3	US-PGPU B; USPAT	OR	ON	2005/11/04 10:32
S42	66	S36 and etch\$3	US-PGPU B; USPAT	OR	ON	2005/11/04 10:32
S43	21	S37 and etch\$3	US-PGPU B; USPAT	OR	ON	2005/11/04 10:32
S44	9	S38 and etch\$3	US-PGPU B; USPAT	OR	ON	2005/11/04 10:32
S38	15	S35 and (diketone acac acacH tfach hfach)	US-PGPU B; USPAT; USOCR	OR	ON	2005/11/04 10:28
S39	0	S37 and S38	US-PGPU B; USPAT; USOCR	OR	ON	2005/11/04 10:28

EAST Search History

S40	3	S36 and S38	US-PGPU B; USPAT; USOCR	OR	ON	2005/11/04 10:28
S37	28	S35 and (atom\$2 radical neutral) near2 beam	US-PGPU B; USPAT; USOCR	OR	ON	2005/11/04 10:27

EAST Search History

S35	183	("20010045525" "4091256" "4152478" "4490211" "4498953" "4522886" "4540466" "4559096" "4575399" "4734152" "4737637" "4740267" "4741800" "4762728" "4774416" "4780608" "4799454" "4833319" "4851097" "4871416" "4886571" "4894511" "4901667" "4911805" "4935623" "5009725" "5019712" "5022961" "5028560" "5031408" "5062902" "5068040" "5085731" "5094701" "5098516" "5108535" "5108543" "5108778" "5110407" "5110435" "5140164" "5145508" "5145554" "5147823" "5174825" "5174855" "5178682" "5178721" "5188671" "5211994" "5213621" "5213622" "5221366" "5221423" "5228206" "5234540" "5248380" "5264724" "5271800" "5286331" "5288684" "5308950" "5332444" "5336326" "5368687" "5376223" "5384018" "5395474" "5409543" "5453494" "5459326" "5518595" "5557534" "5561326" "5563416" "5582879" "5652297" "5657335" "5677011" "5708267" "5731238" "5733712" "5733714" "5754008" "5759746" "5796111" "5814194" "5821549" "5827786" "5849093" "5868952" "5871672" "5883470" "5939485" "6136511" "6200000" "6210000"	US-PGPU B; USPAT; USOCR	OR	ON	2005/11/04 10:24
3/7/06 4:29:32 PM	C:\Documents and Settings\jansen\My Documents\EAST\Workspaces\10 series\10517764 and 1PCT US03 16240.wsp					Page 13

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S32	10	(US-20030168001-\$ or US-20020076495-\$ or US-20010055649-\$).did. or (US-6375790-\$ or US-6569595-\$ or US-5883005-\$ or US-5350480-\$ or US-5993679-\$).did. or (JP-01259582-\$).did. or (EP-1052689-\$).did.	US-PGPU B; USPAT; JPO; DERWEN T	OR	ON	2005/11/04 10:20
S33	13	(US-20040082176-\$ or US-20010055649-\$ or US-20040110375-\$ or US-20030064323-\$ or US-20040113097-\$).did. or (US-6921722-\$ or US-6806198-\$ or US-5993679-\$ or US-5782986-\$ or US-5431774-\$ or US-6902774-\$ or US-6787783-\$ or US-5883005-\$).did.	US-PGPU B; USPAT	OR	ON	2005/11/04 10:20
S34	18	S32 S33	US-PGPU B; USPAT	OR	ON	2005/11/04 10:20
S30	0	S19 not (S8 S10 S11 S12 S21 S23 S24)	US-PGPU B; USPAT	OR	ON	2005/11/04 10:05
S31	0	S17 not (S8 S10 S11 S12 S21 S23 S24)	US-PGPU B; USPAT	OR	ON	2005/11/04 10:05
S27	52	S21 not (S8 S10 S11 S12 S23 S24)	US-PGPU B; USPAT	OR	ON	2005/11/04 10:04
S28	0	S20 not (S8 S10 S11 S12 S21 S23 S24)	US-PGPU B; USPAT	OR	ON	2005/11/04 10:04
S29	0	S18 not (S8 S10 S11 S12 S21 S23 S24)	US-PGPU B; USPAT	OR	ON	2005/11/04 10:04

EAST Search History

S26	55	S23 not (S8 S10 S11 S12 S24)	US-PGPU B; USPAT	OR	ON	2005/11/04 09:47
S25	15	S24 not (S8 S10 S11 S12)	US-PGPU B; USPAT	OR	ON	2005/11/04 09:19
S20	70	etch\$3 with (cu copper) and (oxygen O) same atom\$2 same beam	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2005/11/04 09:06
S22	57	(etch\$3 same (cu copper) and (oxygen O) same atom\$2 same beam) not (etch\$3 with (cu copper) and (oxygen O) same atom\$2 same beam)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2005/11/04 09:06
S24	27	etch\$3 same (cu copper) same (\$2diketone acac acachtfachH hfach acetylacetone keto-enol)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2005/11/04 09:06
S18	108	S17 not (S8 S10 S11 S12)	US-PGPU B; USPAT	OR	ON	2005/11/04 09:06
S21	53	S20 not (S8 S10 S11 S12)	US-PGPU B; USPAT	OR	ON	2005/11/04 09:06
S23	55	S22 not (S8 S10 S11 S12)	US-PGPU B; USPAT	OR	ON	2005/11/04 09:06

EAST Search History

S17	127	etch\$3 same (cu copper) and (oxygen O) same atom\$2 same beam	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2005/11/04 09:05
S19	119	etch\$3 same (cu copper) and (oxygen O) same atom\$2 same beam	US-PGPU B; USPAT	OR	ON	2005/11/04 09:05
S16	19	S11 not (S8 S10 S12)	US-PGPU B; USPAT	OR	ON	2005/11/04 09:03
S15	21	S8 not (S10 S12)	US-PGPU B; USPAT	OR	ON	2005/11/04 08:55
S14	21	S10 not S12	US-PGPU B; USPAT	OR	ON	2005/11/04 08:43
S12	15	etch\$3 near2 (Cu copper) same (atom\$2 beam) with (O2 "O.sub.2" oxygen "02" "O.sub.2")	US-PGPU B; USPAT	OR	ON	2005/11/04 08:37
S13	0	S9 not S12	US-PGPU B; USPAT	OR	ON	2005/11/04 08:37
S8	47	etch\$3 same (Cu copper) same (atom\$2 beam) near2 (O2 "O.sub.2" oxygen "02" "O.sub.2")	US-PGPU B; USPAT	OR	ON	2005/11/04 08:24
S9	2	etch\$3 near (Cu copper) same (atom\$2 beam) near2 (O2 "O.sub.2" oxygen "02" "O.sub.2")	US-PGPU B; USPAT	OR	ON	2005/11/04 08:24
S10	26	etch\$3 with (Cu copper) same (atom\$2 beam) near2 (O2 "O.sub.2" oxygen "02" "O.sub.2")	US-PGPU B; USPAT	OR	ON	2005/11/04 08:24

EAST Search History

S11	55	etch\$3 with (Cu copper) same (atom\$2 beam) with (O2 "O.sub.2" oxygen "O2" "O.sub.2")	US-PGPU B; USPAT	OR	ON	2005/11/04 08:24
S7	1464	etch\$3 same (Cu copper) and (atom\$2 beam) near2 (O2 "O.sub.2" oxygen "O2" "O.sub.2")	US-PGPU B; USPAT	OR	ON	2005/11/04 08:23
S6	0	etch\$3 near (Cu copper) and (atom\$2 near beam FAB) near2 (O2 "O.sub.2" oxygen "O2" "O.sub.2")	US-PGPU B; USPAT	OR	ON	2005/11/04 08:22
S5	17	etch\$3 same (cu copper) same (\$2diketone acac acachtfach hfach acetylacetone keto-enol)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2003/10/14 12:11
S1	0	etch\$3 with (cu copper) same (oxygen O) near2 atom\$2 near2 beam	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2003/10/14 12:08
S3	74	etch\$3 same (cu copper) and (oxygen O) same atom\$2 same beam	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2003/10/14 11:33

EAST Search History

S4	36	(etch\$3 same (cu copper) and (oxygen O) same atom\$2 same beam) not (etch\$3 with (cu copper) and (oxygen O) same atom\$2 same beam)	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2003/10/14 11:33
S2	38	etch\$3 with (cu copper) and (oxygen O) same atom\$2 same beam	US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2003/10/14 11:32